this part but must meet Subpart 58.60 of this subchapter.

[CGFR 68-82, 33 FR 18843, Dec. 18, 1968, as amended by CGD 73-251, 43 FR 56799, Dec. 4, 1978]

#### § 56.01-2 Incorporation by reference.

(a) Certain standards and specifications are incorporated by reference into this part with the approval of the Director of the Federal Register in accordance with 5 U.S.C. 552(a). To enforce any edition other than the one listed in paragraph (b) of this section, notice of the change must be published in the FEDERAL REGISTER and the material made available to the public. All approved material is available from the sources indicated in paragraph (b) or at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: http://  $www.archives.gov/federal\_register/$ code of federal regulations/ ibr locations.html.

(b) The standards and specifications approved for incorporation by reference in this part, and the sections affected are:

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

11 West 42nd Street, New York, NY 10036

ANSI B16.3-85 Malleable Iron Threaded Fittings, Classes 150 and 300......56.60-1 ANSI B16.4-85 Cast Iron Threaded Fit-

tings, Classes 125 and 250 .......56.60-1 ANSI B16.5-81 Pipe Flanges and Flanged Fittings ...56.25-20; 56.30-10; 56.60-

ANSI B16.9-86 Factory-Made Wrought Steel Buttwelding Fittings......56.60-1

ANSI B16.10-86 Face-to-Face and Endto-End Dimensions of Ferrous Valves .......56.60-1

ANSI B16.11-80 Forged Steel Fittings, Socket-Welding and Threaded ......56.30-5; 56.60-1

ANSI B16.14-83 Ferrous Pipe Plugs, Bushings, and Locknuts with Pipe Threads......56.60-1 ANSI B16.15-85 Cast Bronze Threaded Fittings, Classes 125 and 250 ..........56.60-1 ANSI B16.18-84 Cast Copper Alloy Sol-

der Joint Pressure Fittings ..........56.60-1
ANSI B16.20-73 Ring-Joint Gaskets
and Grooves for Steel Pipe Flanges
VIII Division 1 Pressure Vessels

VIII, Division 1, Pressure Vessels, 1986 with addenda....56.15–1; 56.15–5; 56.15–10; 56.25–5; 56.30–10; 56.30–30; 56.00–15; 56.95–10

Section IX, Welding and Brazing Qualifications, 1986 with addenda ......56.70-5; 56.70-20; 56.75-20; 56.0-1

ANSI B16.24-79 Bronze Pipe Flanges and Flanged Fittings, Class 150 and 300 ......56.60-1

ANSI B16.25–86 Buttwelding Ends .......56.60–1; 56.30–5; 56.70–10

ANSI B16.28-86 Wrought Steel
Buttwelding Short Radius Elbows
and Returns .......56.60-1

ANSI B16.29-86 Wrought Copper and Wrought Copper Alloy Solder Joint Drainage Fittings—DWV......56.60-1 ANSI B16.34-88 Valves-Flanged,

Threaded and Welding End...56.20-1; 56.60-

ANSI B36.19M-85 Stainless Steel Pipe .......56.07-5; 56.60-1

AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME) INTERNATIONAL

Three Park Avenue, New York, NY 10016-5990

Boiler and Pressure Vessel Code:

Section I, Power Boilers, 1986 with addenda56.15–5; 56.15–10; 56.60–1; 56.60–1; 56.60–1; 56.70–15; 56.95–10 56.15–1 Section VIII, Division 1, Pressure Vessels, 1986 with addenda ...56.15–1; 56.15–5; 56.15–10; 56.25–5; 56.30–10; 56.30–30; 56.60–15; 56.60–1; 56.95–10

Section IX, Welding and Brazing Qualifications, 1986 with addenda ......56.70-5; 56.70-20; 56.75-20; 56.85-10

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

100 Barr Harbor Drive, West Conshohocken, PA 19428–2959.

ASTM A 36/A 36M-97a, Standard Specification for Carbon Structural Steel .......56.30-10

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ASTM A 47-90 (1995), Standard Specification for Ferritic Malleable Iron
Castings
ASTM A 106-95, Standard Specification for Seamless Carbon Steel Pipe for High-Temperature Service56.60-1
ASTM A 126-95, Standard Specifica- tion for Gray Iron Castings for Valves, Flanges, and Pipe Fittings
ASTM A 134-96, Standard Specification for Pipe, Steel, Electric-Fusion (Arc)-Welded (Sizes NPS 16
and Over)
ed Steel Pipe
Over)
Welded Carbon Steel and Carbon- Manganese Steel Boiler and Super- heater Tubes
ASTM A 179/A 179M-90a (1996), Stand- ard Specification for Seamless Cold-Drawn Low-Carbon Steel Heat-Exchanger and Condenser
Tubes
Fittings, and Valves and Parts for High-Temperature Service56.50–105 ASTM A 192/A 192M–91 (1996), Standard Specification for Seamless Carbon Steel Boiler Tubes for High-Pres-
sure Service
sure or High Temperature Service, or Both56.50-105 ASTM A 197-87 (1992), Standard Speci- fication for Cupola Malleable Iron
ASTM A 210/A 210M-96, Standard Specification for Seamless Medium- Carbon Steel Boiler and Super-
heater Tubes
changer Tubes
changer and Condenser Tubes56.60-1 ASTM A 226/A 226M-95, Standard Spec-

ification for Electric-Resistance-
Welded Carbon Steel Boiler and Superheater Tubes for High-Pres-
sure Service56.60–1
ASTM A 234/A 234M-97, Standard Spec-
ification for Piping Fittings of
Wrought Carbon Steel and Alloy Steel for Moderate and High Tem-
perature Service56.60–1
ASTM A 249/A 249M-96a, Standard
Specification for Welded Australia Steel Beilen Superheaten
tenitic Steel Boiler, Superheater, Heat-Exchanger, and Condenser
Tubes56.60-1
ASTM A 268/A 268M-96, Standard Spec-
ification for Seamless and Welded
Ferritic and Martensitic Stainless Steel Tubing for General Service
56.60–1
ASTM A 276-98, Standard Specifica-
tion for Stainless Steel Bars and Shapes56.60-2
ASTM A 307-97, Standard Specifica-
tion for Carbon Steel Bolts and
Studs, 60,000 PSI Tensile Strength
Specification for Seamless and
Welded Austenitic Stainless Steel
Pipes56.50–105; 56.60–1 ASTM A 320/A 320M–97, Standard Spec-
ification for Alloy/Steel Bolting
Materials for Low-Temperature
Service56.50–105
ASTM A 333/A 333M-94, Standard Spec-
ification for Seamless and Welded Steel Pipe for Low-Temperature
Service
ASTM A 334/A 334M-96, Standard Spec-
ification for Seamless and Welded Carbon and Alloy-Steel Tubes for
Low-Temperature Service56.50–105;
56 60–1
ASTM A 335/A 335M-95a, Standard Specification for Seamless Fer- ritic Alloy-Steel Pipe for High-
Specification for Seamless Fer-
Temperature Service56.60–1
ASTM A 350/A 350M-97, Standard Spec-
ification for Carbon and Low-Alloy
Steel Forgings, Requiring Notch Toughness Testing for Piping
Components
ASTM A 351/A 351M-94a, Standard
Specification for Castings, Austenitic, Austenitic-Ferritic (Du-
plex), for Pressure-Containing
Parts56.50–105
ASTM A 352/A 352M-93 (1998), Standard
Specification for Steel Castings, Ferritic and Martensitic, for Pres-
sure-Containing Parts, Suitable
for Low-Temperature Service56.50–105
ASTM A 358/A 358M-95a, Standard
Specification for Electric-Fusion- Welded Austenitic Chromium-
Nickel Alloy Steel Pipe for High-
Temperature Service56.60–1

# Coast Guard, Dept. of Homeland Security

ASTM A 369/A 369M-92, Standard Spec-	for Aluminum-Alloy Die Castings
ification for Carbon and Ferritic	56.60–2
Alloy Steel Forged and Bored Pipe	ASTM B 88–96, Standard Specification
for High-Temperature Service56.60–1	for Seamless Copper Water Tube
ASTM A 376/A 376M-96, Standard Spec-	56.60–1
ification for Seamless Austenitic	ASTM B 96-93, Standard Specification
Steel Pipe for High-Temperature	for Copper-Silicon Alloy Plate,
Central-Station Service56.07–10; 56.60–1;	Sheet, Strip, and Rolled Bar for
56.60-2	General Purposes and Pressure
ASTM A 395/A 395M-98, Standard Spec-	Vessels
ification for Ferritic Ductile Iron	ASTM B 111-95, Standard Specifica-
Pressure-Retaining Castings for	tion for Copper and Copper-Alloy
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ASTM A 403/A 403M-98, Standard Spec-	ASTM B 124-96, Standard Specifica-
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ASTM A 420/A 420M-96a, Standard	ASTM B 161-93, Standard Specifica-
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ice	tion of Nickel-Copper Alloy (UNS
ASTM A 520-97, Standard Specifica-	NO4400) Seamless Pipe and Tube
tion for Supplementary Require- ments for Seamless and Electric-	ASTM B 167–97a, Standard Specifica-
Resistance-Welded Carbon Steel	tion for Nickel-Chromium-Iron Al-
Tubular Products for High-Tem-	loys (UNS NO6600, NO6601, NO6603,
perature Service Conforming to	NO6690, NO6025, and NO6045) Seam-
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ASTM A 522/A 522M-95b, Standard	tion for Copper-Alloy Plate and
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Flanges, Fittings, Valves, and	ASTM B 210-95, Standard Specifica-
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fication for Ductile Iron Castings	ASTM B 234–95, Standard Specifica-
56.60–1	tion for Aluminum and Alu-
ASTM A 575–96, Standard Specifica-	minum-Alloy Drawn Seamless
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tion for Steel Bars, Carbon, Mer-	
chant Quality, M-Grades	changers
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ASTM B 21–96, Standard Specification	tion Field Service56.60-1
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ASTM B 26/B 26M-97, Standard Speci-	Die Forgings (Hot-Pressed)56.60–2
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ASTM B 42–96, Standard Specification	Pipe and Tube56.60-1
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- ASTM D 2466-97, Standard Specification for Poly (Vinyl Chloride)(PVC) Plastic Pipe Fittings, Schedule 40................................56.60-25
  ASTM D 2467-96a, Standard Specifica-
- ASTM D 2467-96a, Standard Specification for Poly (Vinyl Chloride)(PVC) Plastic Pipe Fittings, Schedule 80.................................56.60-25
  ASTM D 2665-97b, Standard Specifica-
- tion for Poly (Vinyl Chloride)(PVC)Plastic Drain, Waste, and Vent Pipe and Fittings........56.60–25
- ASTM D 2863-95, Standard Test Method for Measuring the Minimum Oxygen Concentration to Support Candle-like Combustion of Plastic (Owner, Index).
- ASTM F 682-82a (1993), Standard Specification for Wrought Carbon Steel Sleeve-Type Pipe Couplings......56.60-1

- ASTM F 1020-86 (1996), Standard Specification for Line-Blind Valves for Marine Applications ......56.60-1
- ASTM F 1120-87 (1993), Standard Specification for Circular Metallic Bellows Type Expansion Joints for Piping Applications.....................56.60-1
- ASTM F 1123-87 (1993), Standard Specification for Non-Metallic Expansion Joints......56.60-1

- ASTM F 1173-95, Standard Specification for Thermosetting Resin Fiberglass Pipe and Fittings to be Used for Marine Applications ........56.60-1
  ASTM F 1199-88 (1993), Standard Speci-

fication for Cast (All Temperature
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- ASTM F 1476-95a, Standard Specification for Performance of Gasketed Mechanical Couplings for Use in Pining Applications 56.30-3

EXPANSION JOINT MANUFACTURERS
ASSOCIATION INC. (EJMA)

- 25 North Broadway, Tarrytown, NY 10591
- Standards of the Expansion Joint Manufacturers Association, 1980.....56.60-1
  - INTERNATIONAL MARITIME ORGANIZATION (IMO), PUBLICATIONS SECTION,
- ${\it 4~Albert~Embankment,~London,~SE1~7SR~United}\atop {\it Kingdom}$
- Resolution A.753(18) Guidelines for the Application of Plastic Pipes on Ships .......56.60–25

FLUID CONTROLS INSTITUTE INC. (FCI)  $\,$ 

- 31 South Street, Suite 303, Morristown, NJ 07960
- FCI 69–1 Pressure Rating Standard for Steam Traps ......56.60–1
- MANUFACTURERS STANDARDIZATION SOCIETY OF THE VALVE AND FITTINGS INDUSTRY, INC. (MSS)

127 Park Street NE, Vienna, VA 22180

- and Steel Flanges ......56.60-1
- SP-25-88 Standard Marking System for Valves, Fittings, Flanges and Unions.......56.15-1; 56.20-5; 56.60-1
- SP-44-85 Steel Pipe Line Flanges .......56.60-1 SP-45-87 Bypass and Drain Connection

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SP-53-85 Quality Standard for Steel
Castings and Forgings for Valves,
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Flanges and Fittings and Other
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Particle Examination Method56.60–1
SP-55-85 Quality Standard for Steel
Castings for Valves, Flanges and
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SP-58-83 Pipe Hangers and Supports—
Materials, Design and Manufac-
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SP-61-85 Pressure Testing of Steel
Valves56.60-1
SP-67-83 Butterfly Valves56.60-1
SP-69-83 Pipe Hangers and Supports—
Selection and Application56.60-1
SP-72-87 Ball Valves with Flanged or
Butt-Welding Ends for General
Service
SP-73-86 Brazing Joints for Wrought
and Cast Copper Alloy Solder
Joint Pressure Fittings56.60–1
SP-83-87 Steel Pipe Unions, Socket-

SOCIETY OF AUTOMOTIVE ENGINEERS (SAE)

400 Commonwealth Drive, Warrendale, Pa 15096

J1475-84	Hydraulic	Hose	Fittings	for
Mari	ne Applicat	ions		56.60–25
J1942-89 Hose and Hose Assemblies for				
Mari	ne Applicat	ions		56.60–25

[CGD 77–140, 54 FR 40599, Oct. 2, 1989; 55 FR 39968, Oct. 1, 1990, as amended by CGD 88–032, 56 FR 35822, July 29, 1991; CGD 95–012, 60 FR 48049, Sept. 18, 1995; CGD 95–027, 61 FR 26000, May 23, 1996; CGD 96–041, 61 FR 50728, Sept. 27, 1996; CGD 97–057, 62 FR 51044, Sept. 30, 1997; CGD 95–028, 62 FR 51200, Sept. 30, 1997; USCG—1999–6216, 64 FR 53224, Oct. 1, 1999; USCG—1999–5151, 64 FR 67178, Dec. 1, 1999; USCG—2004—18884, 69 FR 58346, Sept. 30, 2004]

# § 56.01-3 Power boiler external piping (Replaces 100.1.1, 100.1.2, 111.6, 122.1, 132 and 133).

- (a) Power boiler external piping and components must meet the requirements of this part and  $\S52.01-105$ , 52.01-110, 52.01-115, and 52.01-120 of this chapter.
- (b) Specific requirements for power boiler external piping and appurtenances, as defined in §§100.1.1 and 100.1.2, appearing in the various paragraphs of ANSI B31.1, are not adopted unless specifically indicated elsewhere in this part.

[CGD 77–140, 54 FR 40602, Oct. 2, 1989; 55 FR 39968, Oct. 1, 1990]

#### § 56.01-5 Adoption of ANSI (American National Standards Institute) Code B31.1 for pressure and power piping, and other standards.

(a) Piping systems for ships and barges shall be designed, constructed, and inspected in accordance with B31.1, the "Code for Pressure Piping, Power Piping," of the ANSI (American National Standards Institute), as limited, modified, or replaced by specific requirements in this part. The provisions in the appendices to ANSI-B31.1 are adopted and shall be followed when the requirements in ANSI-B31.1 or the regulations in this part make them mandatory. For general information Table 56.01-5(a) lists the various paragraphs, etc., in ANSI-B31.1 which are limited, modified, replaced, or reproduced by regulations in this part.

TABLE 56.01–5(A)—LIMITATIONS AND MODIFICA-TIONS IN THE ADOPTION OF ANSI-B31.1 CODE FOR PRESSURE AND POWER PIPING

Section or paragraph in ANSI- B31.1, and disposition	Unit in this part
100.1 replaced by	56.01–1.
100.2 modified by	56.07-5.
101 through 104.7 modified by	56.07–10.
101.2 modified by	56.07-10(a), (b).
101.5 replaced by	56.07-10(c).
102.2 modified by	56.07-10(d).
102.2.5(d) replaced by	56.50–40.
102.3 and 104.1.2 modified by	56.07-10(e).
104.3 modified by	56.07-10(f).
104.4 modified by	56.07-10(e).
104.5.1 modified by	56.30–10.
105 through 108 replaced by	56.10–1 through 56.25– 20.
110 through 118 replaced by	56.30–1 through 56.30– 35.
119.5.1 replaced by	56.35–10, 56.35–15, 56.35–35.
119.7 replaced by	56.35–1.
122.3 modified by	56.50–97.
122.6 through 122.10 replaced by	56.50–1 through 56.50– 80.
123 replaced by	56.60–1.
Table 126.1 is replaced by	56.30-5(c)(3), 56.60-1.
127 through 135.4 replaced by	56.65-1, 56.70-1
	through 56.90-10.
136 replaced by	56.95-1 through 56.95-
	10.
137 replaced by	56.97–1 through 56.97– 40.

(b) When a section or paragraph of the regulations in this part relates to material in ANSI-B31.1 Code (American National Standard Code for Pressure Piping, Power Piping), the relationship with this code will be shown immediately following the heading of the